Tribhuvan University
Institute of Science and Technology
Model Question Paper

Bachelor Level/ First Year/ Second Semester/ Science — Full Marks: 60
Computer Science and Information Technology (CSC 153) — Pass Marks: 24
(Microprocessor) — Time: 3 hours.

Candidates are required to give their answers in their own words as for as practicable.
The figures in the margin indicate full marks.

Section A: Long Answer Type Questions.

Attempt any TWO questions. (2x10=20)

1. Draw the block diagram of SAP2 and explain each block.
2. What are the uses of flags in the microprocessor? Discuss different types of flags with suitable examples.
3. A table having starting address 3060h contains ten numbers of 8-bit data. Write a program in 8085 that transfer the data to next table having starting address 3070h if the data is less than 90h else store it to next table at 3080h.

Section B: Short Answer Type Questions

Attempt any EIGHT questions. (8x5=40)

4. Draw and explain Von Neuman Architecture.
5. Write a micro-operation of OUT and ADD instruction in SAP1 architecture.
6. Compare 8085 and 8086 microprocessor.
7. What do you mean by addressing mode? Discuss different types of addressing modes with suitable examples.
8. Draw the timing diagram of MVI instruction.
9. What do you understand by POP operation? Explain the use of POP operation in the case of stack.
10. Write an 8085 program to multiply two 8-bit numbers.
11. Write an assembly language program to display a string “THIS IS MICROPROCESSOR LAB”using 09H function of INT 21H.
12. What is DMA? Why is it used? Explain.
13. Explain different modes of operation of 8255.

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